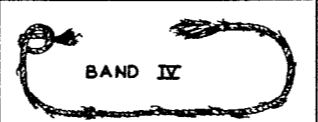
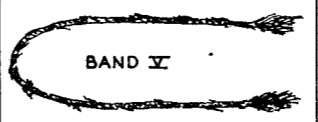
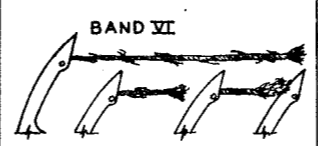
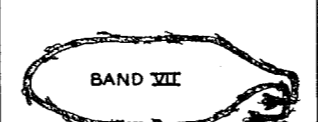
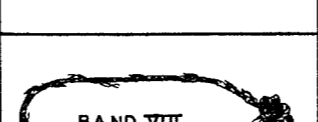
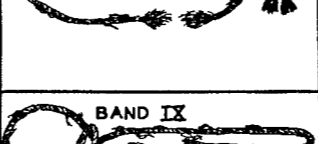

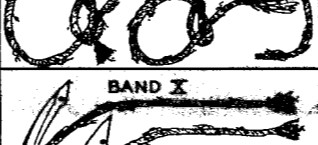

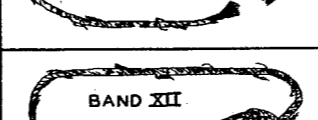

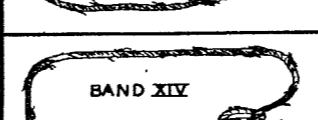
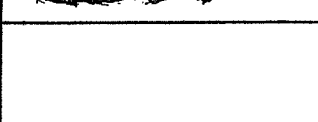


BINDER TROUBLE CHART

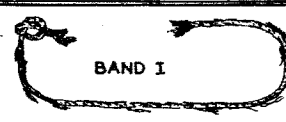
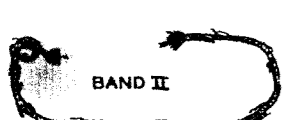
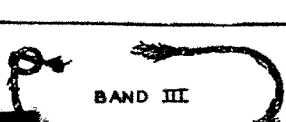
BINDER HEAD TROUBLES

UNIT	TROUBLE OR SYMPTOM	CAUSE	REFERENCE	REMEDY
COMPRESSOR ARM	BUNDLE TOO LARGE	COMPRESSOR ARM TOO FAR OUT ON TRIP CRANK	SECTION 1	MOVE COMPRESSOR ARM NEARER PACKERS
	BUNDLE TOO SMALL	COMPRESSOR ARM TOO FAR IN ON TRIP CRANK		MOVE COMPRESSOR ARM AWAY FROM PACKERS
TRIP SPRING	BUNDLE TOO TIGHT	TRIP SPRING TOO TIGHT	SECTION 2	LOOSEN TRIP SPRING.
	BUNDLE TOO LOOSE	TRIP SPRING TOO LOOSE		TIGHTEN TRIP SPRING
DISCHARGE ARMS	DISCHARGE ARMS DO NOT CAST BUNDLE. THEY FAIL TO START OR REVOLVE PART WAY	DOG SPRING WEAK, LOST, OR BROKEN.	SECTION 3	IF WEAK, TRY STRETCHING IF LOST OR BROKEN, SUPPLY NEW PART
	DISCHARGE ARMS REVOLVE WITH JERKY MOTION.	1. FACE OF DOG AND DOG DRIVER WORN BEVEL SHAPE SO THAT THEY SLIP BY EACH OTHER 2. WEAK DOG SPRING.	SECTION 4	1-REPLACE DOG AND DOG DRIVER WITH NEW 2- SUPPLY NEW DOG SPRING
	DISCHARGE ARMS REVOLVE CONTINUOUSLY.	DOG IS OUT OF TIME WITH STOP ARM.	SECTION 5	RETIRE DOG.
	DISCHARGE ARMS LOCKED BUT NOT IN NORMAL POSITION. NEEDLE ADVANCED SO GRAIN CANNOT PASS DOWN DECK.	DOG IS OUT OF TIME. (MASSEY HARRIS)		RETIRE DOG
	DISCHARGE ARMS SHAKE OR CHATTER IN POSITION HIGHER THAN HOME.	1- DOG OUT OF TIME, SLOW, 2- TIER SHAFT LOCK RETARDED OR STOP ARM TOO SHORT.		1- RETIRE DOG. 2-ADVANCE TIER SHAFT LOCK, OR LENGTHEN STOP ARM
DISCHARGE ARMS SHAKE OR CHATTER IN POSITION BEFORE THEY REACH HOME.	1- DOG OUT OF TIME, FAST. 2- TIER SHAFT LOCK ADVANCED OR STOP ARM TOO LONG. 3- TIER SHAFT LOCK LOOSE, LOST, OR BROKEN.	1- RETIRE DOG. 2- RETARD TIER SHAFT LOCK OR SHORTEN STOP ARM. 3- REPLACE WITH NEW PARTS.		
BUNDLES	SMALL BUNDLES OCCASIONALLY IN GOOD STANDING GRAIN.	DOG SLIPS BY STOP ARM DUE TO STRIKING SURFACES BEING WORN BEVEL SHAPED.	SECTION 6	SUPPLY NEW STOP ARM AND DOG. TEMPORARY REMEDY - FILE SURFACES FLAT - LENGTHEN STOP ARM OR ADVANCE TIER SHAFT LOCK TO TAKE UP EXTRA SPACE.
	VERY SMALL BUNDLES CONTINUOUSLY.	DOG IS OUT OF TIME WITH STOP ARM.	SECTION 5	RETIRE DOG
DOG AND DOG DRIVER	TAPPING - SLIGHT TAPPING SOUND CAN BE HEARD.	DOG IS NOT HELD BACK FAR ENOUGH WHEN IN POSITION OF REST.	SECTION 5	LENGTHEN STOP ARM IF ADJUSTABLE IF NOT, ADVANCE TIER SHAFT LOCK.
	POUNDING - DOG DRIVER POUNDS DISCHARGE ARMS SHAKE OR VIBRATE.	1- DOG IS OUT OF TIME - FAST 2- DOG IS OUT OF TIME - SLOW. 3- TIER SHAFT LOCK ADVANCED, OR STOP ARM TOO LONG. 4- TIER SHAFT LOCK RETARDED, OR STOP ARM TOO SHORT. 5- TIER SHAFT LOCK LOOSE, LOST, OR BROKEN.		1- RETIRE DOG. 2- RETIRE DOG 3- RETARD TIER SHAFT LOCK OR SHORTEN STOP ARM. 4- ADVANCE TIER SHAFT LOCK OR LENGTHEN STOP ARM 5- REPLACE WITH NEW PARTS.
ELEVATORS	MACHINE CHOKES DOWN BECAUSE HEAD FAILS TO TRIP, DECK AND ELEVATORS BECOME CLOGGED WITH GRAIN.	1- HEAD CANNOT HANDLE ALL STRAW FROM A TEN FOOT CUT. 2- DOG SPRING WEAK, LOST, OR BROKEN. 3- STRIKING FACES BETWEEN DOG AND DOG DRIVER BADLY WORN. 4- HEXAGONAL NUT AT TOP OR BOTTOM OF COMPRESSOR LINK HAS BEEN MOVED.	SECTION 3 SECTION 4	1- CUT NARROWER SWATH. 2- REPLACE DOG SPRING. 3- SUPPLY NEW DOG, DOG DRIVER, AND SPRING. 4- WARNING - DO NOT MOVE THIS NUT IF IT HAS BEEN MOVED. EXAMINE ANOTHER MACHINE AND RESET AS NEAR AS POSSIBLE. 5- SUPPLY NEW PARTS.
		5- EXCESSIVE WEAR ON STRIKING SURFACES BETWEEN THE TAIL OF THE STOP ARM AND THE COMPRESSOR LINK. 6- IN SOME HEADS EXCESSIVE WEAR IN STOP ARM BEARING AROUND NEEDLE SHAFT. 7- STOP ARM BENT DOWNWARD BETWEEN STOP ARM FACE AND BEARING	6- SUPPLY NEW PARTS 7- BEND BACK TO SHAPE.	
	MACHINE CHOKES DOWN WHEN NEEDLE ADVANCES BULL WHEEL SLIDES	BUNDLE TOO TIGHT AND TOO LARGE.	SECTIONS 1 & 2	ADJUST HEAD TO TIE A SMALLER LOOSER BUNDLE

KNOTTER HEAD TROUBLES

UNIT	TROUBLE OR SYMPTOM	CAUSE	REFERENCE	REMEDY
	BAND IV	SIMPLE KNOT ONE END - OTHER END BROKEN, FOUND ON BUNDLE.	SECTION 13 SECTION IIC	1- LOOSEN DISK TENSION SLIGHTLY. 2- RETIME DISK.
	BAND V	BOTH ENDS BROKEN, FOUND ON BUNDLE.	SECTION 14	LOOSEN DISK SLIGHTLY. IF SOME OTHER BAND APPEARS, FOLLOW DIRECTIONS FOR THAT BAND.
	BAND VI	NO BAND - SHORT PIECE EXTENDING FROM EYE OF NEEDLE, OR TWINE PULLED OUT FROM EYE.	SECTION 15 SECTION 15A SECTION 15B	1- (END OF TWINE CUT) TWINE TENSION TOO TIGHT. DISK TENSION MAY BE A LITTLE LOOSE. 2- (END OF TWINE BROKE) BOTH TWINE TENSION AND DISK TOO TIGHT. 3- IF TWINE EYES ARE BADLY WORN AND POOR UNEVEN TWINE IS USED THIS BAND MAY OCCUR.
	BAND VII	BOTH ENDS CRINKLED - NO KNOT, FOUND ON BUNDLE.	SECTION 16	1- REMOVE ALL SUCH STRAW. 2- ADJUST TENSION 1/4 TURN AT A TIME. 3- REPLACE WITH NEW BILL. TEMPORARY REPAIR - FILE AWAY A LITTLE BEHIND OLD HUMP. USE SMALL ROUND FILE AND SMOOTH WITH EMERY PAPER. 4- SUPPLY NEW PARTS. 5- BEND BACK TO SHAPE.
	BAND VIII	PERFECT KNOT STILL ON BILLS. BAND BROKEN ELSEWHERE AS BUNDLE IS CAST.	SECTION 17	1- POLISH BILLS OR LOOSEN TENSION ON UPPER BILL UNTIL BAND VII APPEARS. THEN TIGHTEN TENSION. 2- LOOSEN BILLS TENSION SLIGHTLY. 3- REPLACE STRIPPER ARM AND KNOTTER HEAD CAM WHEEL WITH NEW PARTS. 4- BEND BACK TO SHAPE. 5- ADJUST TWINE TENSION OR SUPPLY NEW PARTS. 6- ADJUST TRIP SPRING TO TIE TIGHTER BUNDLES.
	BAND IX	SLIP KNOT AROUND CAST BUNDLE TWINE EXTENDS FROM BUNDLE TO EYE OF NEEDLE.	SECTION 18	1- STRAW OR GREEN STUFF IN KNOTTER HEAD. 2- TWINE TENSION WEAK LOST OR BROKEN. 3- NEEDLE SLOW DUE TO WEAR OR NEEDLE PITMAN HAS BEEN LENGTHENED.
	BAND X	OR SLIP KNOT AROUND CAST BUNDLE AND BAND HAS A TAIL WITH SIMPLE KNOT. OR SLIP KNOT IN ONE BUNDLE WITH TAIL TO ANOTHER BUNDLE TIED PERFECTLY. OR SLIP KNOT AROUND BUNDLE - END TORN.		1- SHARPEN AND POLISH NEEDLE POINT. 2- TIGHTEN TENSION OR SUPPLY NEW PARTS. 3- TAKE UP WEAR OR SHORTEN NEEDLE PITMAN SLIGHTLY. 4- REPLACE EYE PIECE OR SUPPLY NEW NEEDLE.
	BAND XI	OR SLIP KNOT AROUND BUNDLE - END EXTENDS TO TWINE DISK.	SECTION IIC	5- BENT NEEDLE. 6- DISK OUT OF TIME. 6- RETIME DISK.
	BAND XII	EYE OF NEEDLE NOT THREADED. LOOSE TWINE EXTENDS FROM SIDE OF NEEDLE, OR TWINE EXTENDS TO DISK, OR TWINE EXTENDS TO CAST BUNDLE.	SECTION 19	TWINE TENSION VERY LOOSE LOST OR BROKEN. TIGHTEN TWINE TENSION GRADUALLY.
	BAND XIII	ONE END CRINKLED - OTHER END CUT, FOUND ON BUNDLE.	SECTIONS II & 16	SEE REMEDY UNDER BAND II AND THEN UNDER BAND VIII.
	BAND XIV	SLIP KNOT AROUND BILLS - BAND BROKEN, FOUND ON BILLS.	SECTIONS II & 17	SEE REMEDY UNDER BAND II AND THEN UNDER BAND VIII.
	BAND XV	ONE END CRINKLED - OTHER END TORN, FOUND ON BUNDLE.	SECTIONS 13 & 16	SEE REMEDY UNDER BAND IV AND THEN UNDER BAND VIII.
	BAND XVI	SLIP KNOT AROUND BILLS - BAND BROKEN, FOUND ON BILLS.	SECTIONS 13 & 17	SEE REMEDY UNDER BAND IV AND THEN UNDER BAND VIII.

KNOTTER HEAD TROUBLES

UNIT	TROUBLE OR SYMPTOM	CAUSE	REFERENCE	REMEDY
	BAND I	SIMPLE KNOT ONE END - OTHER END CUT FOUND ON BILLS.	SECTION 10	LOOSEN TWINE TENSION SLIGHTLY. TIGHTEN DISK TENSION IF NECESSARY.
	BAND II	SIMPLE KNOT ONE END - OTHER END CUT, FOUND ON BUNDLE.	SECTION 11 SECTION IIA SECTION IIB SECTION IIC	1- TIGHTEN DISK TENSION. 2- SUPPLY NEW BILL. 3- SUPPLY NEW BILLS PINION - TEMPORARY REPAIR BY PLACING WASHER UNDER PINION 4- RETIME DISK.
	BAND III	SIMPLE KNOT ONE END - OTHER END BROKEN FOUND ON BILLS.	SECTION 12	LOOSEN BOTH TWINE AND DISK TENSION SLIGHTLY.

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